RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/533.355Source: 90/60Date Processed by STIC: 5/2/05

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 05/12/2005
PATENT APPLICATION: US/10/533,355 TIME: 08:15:07

Input Set : A:\UMD-16.ST25.txt

Output Set: N:\CRF4\05122005\J533355.raw

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7 <110> APPLICANT: University of Medicine and Dentistry of New Jersey
              Black, Ira B.
     13 <120> TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
     17 <130> FILE REFERENCE: UMD-0016
C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/533,355
C--> 21 <141> CURRENT FILING DATE: 2005-04-29
     21 <150> PRIOR APPLICATION NUMBER: US 60/422,986
     23 <151> PRIOR FILING DATE: 2002-11-01
     27 <160> NUMBER OF SEQ ID NOS: 16
     31 <170> SOFTWARE: PatentIn version 3.1
     35 <210> SEO ID NO: 1
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                                                                              120
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     52 getgeagtag egeeteeeeg geeggggaea geettteeta etaceattee eeageegaet
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     56 ctagtgccaa ctttatcccc acggtgacag ccatctccac cagcccagac ctgcagtggc
     58 tggtgcagcc cactetggte tectecgtgg ceceategea gaccagageg ceceateett
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                                                                              480
     62 caggeggeag agegeagage ateggeagaa ggggeaaagt agageageta teteetgaag
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     64 aggaagagaa acggagaatc cgaagggaaa ggaataagat ggctgcagcc aagtgccgga
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     66 ateggaggag ggagetgaca gataegetee aageggagae agateaaett gaagaegaga
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     70 ttttggcagc ccaccgacct gcctgcaaga tccccaatga cctgggcttc ccaqaqqaqa
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     72 tgtctgtgac ctccctggac ttgactgggg gtctgcctga ggctaccacc ccagagtctg
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     90 cattacagag aggagaaaca cgtcttccct cgaggggttc ccgtagacct agggaggacc
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1620

1680

RAW SEQUENCE LISTING DATE: 05/12/2005
PATENT APPLICATION: US/10/533,355 TIME: 08:15:07

Input Set : A:\UMD-16.ST25.txt

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| 104 | gcaatagtgt | gttccaattt | agaaatgacc | aatattaaac | taagaaaaga | tagaacttta | 1800 |
| 106 | ttttccggta | gatagaaata | aatcgctata | tccacgtact | gtagctcttc | agcgtccatg | 1860 |
| | ttcattgtca | | | | | | 1920 |
| | gttttccatg | _ | | | | _ | 1980 |
| | atttatattt | | | | | | 2040 |
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| | tgccggaacc | | | | | | 540 |
| | cgggggcggt gccgagcgaa | | | | | | 600 |
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| | atcctcagcg | | | | | | 840 |
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| | tactcccaac | | | | | | 960 |
| | cacagccttg | | | | | | 1020 |
| | catgatccct | | | | | | 1080 |
| | ccagaagccc | | | | | | 1140 |
| | cactatcaaa | | | - | | | 1200 |
| | ctaccagtcc | | | | | | 1260 |
| | gacacccccc | | | | | | 1320 |
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| | tcgaatctgc | | | | | | 1440 |
| | cacaggcgag | | | - | | _ | 1500 |
| | acgcaagagg | | | | | | 1560 |
| | cgtggcctcc | | | | | | 1620 |
| | cccatccccc | | | | | | 1680 |
| 186 | ctcctctacc | tacccgtctc | ctgcacacag | tggcttccca | tcgccctcgg | tggccaccac | 1740 |
| | ctatgcctcc | | | | | | 1800 |
| | cagcaactcc | | | | | | 1860 |
| 192 | gacaattgaa | atttgctaaa | gggaatgaaa | gagagcaaag | ggaggggagc | gcgagagaca | 1920 |
| | ataaaggaca | | | | | | 1980 |
| | gatctcagag | | | | | | 2040 |
| | tagcgtccct | | | | | | 2100 |
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RAW SEQUENCE LISTING

DATE: 05/12/2005 PATENT APPLICATION: US/10/533,355 TIME: 08:15:07

Input Set : A:\UMD-16.ST25.txt

| 202 | agcatcatct | ccaccacatg | cctggccctt | gctcccttca | gcactagaac | atcaagttgg | 2220 |
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| 205 | ctgaaaaaaa | aaatgggtct | gggccctcag | aaccctgccc | tgtatctttg | tacagcatct | 2280 |
| 207 | gtgccatgga | ttttgttttc | cttggggtat | tcttgatgtg | aagataattt | gcatactcta | 2340 |
| 209 | ttgtactatt | tggagttaaa | ttctcacttt | gggggagggg | gagcaaagcc | aagcaaacca | 2400 |
| 211 | atggtgatcc | tctattttgt | gatgatcctg | ctgtgacatt | aggtttgaaa | ctttttttt | 2460 |
| 213 | tttttgaagc | agcagtccta | ggtattaact | ggagcatgtg | tcagagtgtt | gttccgttaa | 2520 |
| 215 | ttttgtaaat | actgctcgac | tgtaactctc | acatgtgaca | aaatacggtt | tgtttggttg | 2580 |
| 217 | ggttttttgt | tgtttttgaa | aaaaaaattt | tttttttgcc | cgtccctttg | gtttcaaaag | 2640 |
| 219 | tttcacgtct | tggtgccttt | gtgtgacaca | ccttgccgat | ggctggacat | gtgcaatcgt | 2700 |
| 221 | gaggggacac | gctcacctct | agccttaagg | gggtaggagt | gatgtttcag | gggaggcttt | 2760 |
| 223 | agagcacgat | gaggaagagg | gctgagctga | gctttggttc | tccagaatgt | aagaagaaaa | 2820 |
| 225 | atttaaaaca | aaaatctgaa | ctctcaaaag | tctattttt | taactgaaaa | tgtagattta | 2880 |
| 227 | tccatgttcg | ggagttggaa | tgctgcggtt | acctactgag | taggcggtga | cttttgtatg | 2940 |
| 229 | ctatgaacat | gaagttcatt | attttgtggt | tttattttac | ttcgtacttg | tgtttgctta | 3000 |
| 231 | aacaaagtga | cttgtttggc | ttataaacac | attgaatgcg | ctttactgcc | catgggatat | 3060 |
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| 251 | cgcttcgcgc | ccgctgcagc | cgccggctct | gaatccttct | ggcttccgcc | tcagaggagt | 180 |
| 253 | tcttagcctg | tcccgaaccg | taaccccggc | gagcagatgg | agctggacca | tatgacgacc | 240 |
| 255 | ggcggcctcc | acgcctaccc | tgccccgcgg | ggtgggccgg | ccgccaaacc | caatgtgatc | 300 |
| 257 | ctgcagattg | gtaagtgccg | agctgagatg | ctggagcacg | tacggaggac | ccaccggcat | 360 |
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| 261 | ggcaagctgg | agaacaactt | ggacggctat | gtgcccacgg | gcgactcaca | gcgctggaag | 480 |
| 263 | aagtccatca | aggcctgtct | ctgccgctgc | caggagacca | tcgccaacct | ggagcgctgg | 540 |
| 265 | gtcaagcgtg | agatgcacgt | gtggagggag | gtcttctacc | gtctggagag | gtgggccgac | 600 |
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| 271 | gttagcccct | atgccatcac | cccgccacct | gccgcaggag | agctgcctga | gcaggagtca | 780 |
| 273 | gttggggctc | agcaatacca | gtcttgggtg | ccaggtgagg | atgggcaacc | aagcccaggt | 840 |
| 275 | ctggataccc | agatctttga | ggacccacgg | gagttcctga | gccacctgga | agagtacctg | 900 |
| 277 | cggcaggtgg | gtggctctga | agaatattgg | ctgtcccaga | tccagaacca | catgaatggg | 960 |
| 279 | ccagccaaga | agtggtggga | gttcaaacag | ggctcggtga | agaactgggt | ggagttcaag | 1020 |
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| 283 | gacctgccac | agaagcaggg | tgagccactt | gaccagttcc | tctggcgtaa | gcgggacctg | 1140 |
| | | | cgctgaggag | | | | 1200 |
| 287 | ctgcagccca | agttcaagcg | ctttctgcgc | cacccacttc | ccaagaccct | ggagcagctc | 1260 |
| | | | tcaggacggc | | | | 1320 |
| | | | gactgaggca | | | | 1380 |
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| 297 | ggatgccctg | tccagccaga | caccttctca | cccactggcc | tgactcacaa | ctgccacaca | 1560 |
| | | | agaagcccct | | | | 1620 |
| 301 | cctcacctgt | ctgccctagt | cctggccctg | tctccagtgg | cctcaccctc | tacactctca | 1680 |



DATE: 05/12/2005 PATENT APPLICATION: US/10/533,355 TIME: 08:15:07

Input Set : A:\UMD-16.ST25.txt

| 303 | gaccatcaca gaacacct | tt ggcttcctca | ttctgcatca | gtgtccaggg | ccctttaaat | 1740 |
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| | cgctggcgcc tcctggcc | | | | | 2040 |
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| | gaggcagcag ctggagtc | | | | | 2160 |
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| | | | | | | 2280 |
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| | ttcgctgcgt ggcctttg | | | | | 2520 |
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| | cccatgcctt ggctccta | | | | | 2640 |
| | gctggaacct catccaca | | | | | 2700 |
| | tagtctgagt aggccatg | | | | | 2760 |
| | cagttccact gctgttct | | | | | 2820 |
| | tatttttgca cataaacc | | | | | 2880 |
| | cctggagatc tcaagagt | | | | | 2940 |
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| | ctgcagtgga tggtacag | | | | | 240 |
| 370 | cacccctaca gccccctg | cc aggcttgcga | tcagtccctg | ggcacatggc | tctccccaga | 300 |
| | ccaggagtga tcaagacc | | | | | 360 |
| 374 | tctcccgaag aggaggag | aa gcgtcgaatc | cggcgagaga | gaaacaagct | ggccgctgcc | 420 |
| 376 | aagtgtegga aeegtega | cg tgagctgacg | gagaagctgc | agacggagac | agaggagctg | 480 |
| 378 | gaggaggaga agtccggt | ct gcagaaagaa | atcgctgagc | tgcagaagga | gaaggagaag | 540 |
| 380 | ctggagttca tgctggtg | gc tcacggccct | gtgtgcaaaa | tcagtcctga | ggaacgccga | 600 |
| 382 | tettececca ecteeggg | gt acagtcctta | cgcggtacgg | gcagtgctgt | cggccctgtg | 660 |
| 384 | | | | | | 720 |
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| 386 | gtggtgaaac aggagcct acccagcgct ctgtcatc | | | | | 780 |
| | | aa gcccattagc | attgctgggg | gtggtttcta | cggggaagag | |
| 388 | acccageget etgteate | aa gcccattagc gt ggtgacctcc | attgctgggg acacctgcca | gtggtttcta tcactccggg | cggggaagag cacttcaaac | 780 |
| 388 390 | acccageget etgteate cetetgeaca ecceeate | aa gcccattagc gt ggtgacctcc ag tgtcctggag | attgctgggg acacctgcca caggagtcgc | gtggtttcta tcactccggg ctgcgtcgcc | cggggaagag cacttcaaac ctccgagtcc | 780 840 |
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DATE: 05/12/2005 PATENT APPLICATION: US/10/533,355 TIME: 08:15:07

Input Set : A:\UMD-16.ST25.txt

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| 412 | gctccatgga | acaccagctc | ctgtgctgcg | aagtggagac | catccgccgc | gcgtaccctg | 180 |
| | | cctcaaccga | | | | | 240 |
| 416 | cgccctccgt | ttcttacttc | aagtgcgtgc | agagggagat | tgtgccatcc | atgcggaaaa | 300 |
| 418 | tcgtggccac | ctggatgcta | gaggtctgcg | aggagcagaa | gtgcgaagag | gaggtcttcc | 360 |
| 420 | cgctggccat | gaactacctg | gaccgtttct | tgtctctgga | gcccctgaag | aagagccgcc | ,420 |
| 422 | tgcagcttct | gggggccacc | tgcatgttcg | tggcctctaa | gatgaaggag | accattecce | 480 |
| | | gaagttgtgc | | | | | 540 |
| 426 | aaatggaact | gcttctggtg | aacaagctca | aatggaacct | ggccgccatg | actccccacg | 600 |
| 428 | atttcatcga | acacttcctc | tccaaaatgc | cagaggcgga | tgagaacaag | cagatcatcc | 660 |
| | | acagaccttt | | | | | 720 |
| 432 | caccctccat | ggtggctgct | gggagtgtgg | tggccgcgat | gcagggcctg | aacctgggca | 780 |
| 434 | gccccaacaa | cttcctctcc | tgctaccgca | caacgcactt | tctttccaga | gtcatcaagt | 840 |
| 436 | gtgacccgga | ctgcctccgt | gcctgccagg | aacagattga | agcccttctg | gagtcaagcc | 900 |
| 438 | tgcgccaggc | ccagcagaac | atcgatccca | aggccaccga | ggaggaaggg | gaagtggagg | 960 |
| 440 | aagaagctgg | tctggcttgc | acacccaccg | acgtccgaga | tgtggacatc | tgagggccca | 1020 |
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| | | aatacagcaa | | | | | 1500 |
| | | gtgaaaaggc | | | | | 1560 |
| | | cagacctgtt | | | | | 1620 |
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| | | gttcccaaaa | | | | | 1980 |
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| | | gtagggctgg | | | | | 2160 |
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| | | ctttcacaca | | | | | 2340 |
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| | | gattcaaacg | | | | | 2460 |
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| | | tagcaacagt | | | | | 2700 |
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/533,355

DATE: 05/12/2005 TIME: 08:15:08

Input Set : A:\UMD-16.ST25.txt

Output Set: N:\CRF4\05122005\J533355.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; N Pos. 2265

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/533,355

DATE: 05/12/2005 TIME: 08:15:08

Input Set : A:\UMD-16.ST25.txt

Output Set: N:\CRF4\05122005\J533355.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application No

L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:2220

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